

20020427.qrp v02_n538.qrl.20020427

Date: Sat, 27 Apr 2002 19:03:03 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2538

QRP-L Digest 2538

Topics covered in this issue include:

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- 2) [125587] RE: SURPLUS: Ferrite Rod Antennas
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by na5n@zianet.com
- 5) [125590] Re: End fed Zepp or W3EDP antenna
by Lew Paceley <lew@paceley.com>
- 6) [125591] OT: computer-cdrw
by David Heintzleman <pstrdave@kdsi.net>
- 7) [125592] Re: computer-cdrw
by "John J. McDonough" <wb8rcr@arrl.net>
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by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 12) [125597] K7RE's QRP Dupe Program
by "Richard H. Arland" <rarland@earthlink.net>
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by "Tom Dooley" <tdooley@attbi.com>
- 15) [125600] Re: Counterpoise,ground...Don't understand
by "Dave" <wr3i@earthlink.net>
- 16) [125601] Re: 160m and 80m operations
by "ss lyon" <sslyon@megalink.net>
- 17) [125602] Re: Erecting Antennas for Field Day?
by "ss lyon" <sslyon@megalink.net>
- 18) [125603] QRPTTF
by "George, W5YR" <w5yr@att.net>
- 19) [125604] Re: OT: computer-cdrw

by "Mark J. Dulcey" <mark@buttery.org>
20) [125605] Re: Counterpoise,ground...Don't understand (Long)
by "Pastor-KC1DI" <elbc@pivot.net>
21) [125606] QRPTTF
by "Jay Henson" <aj4ay@worldnet.att.net>
22) [125607] Re: Counterpoise,ground...Don't understand (Long)
by IamSF5@aol.com
23) [125608] Re: QRPTTF this Saturday!
by "Michael C. Boatright" <ko4wx@mindspring.com>
24) [125609] Re: QRPTTF
by "Michael C. Boatright" <ko4wx@mindspring.com>
25) [125610] FS Index Labs QRP Plus
by "Karl F. Larsen" <k5di@zianet.com>
26) [125611] HB - hb receiver troubles
by Harry Hurst <wa3ptg@comcast.net>
27) [125612] FS: Century 21 &
by David Heintzleman <pstrdave@kdsi.net>
28) [125613] Re: HB - hb receiver troubles
by "Leon Heller" <leon_heller@hotmail.com>
29) [125614] 40673 found?
by "Howard Kraus" <K2UD@adelphia.net>
30) [125615] It's here it's here...
by Paul Womble <pwomble1@tampabay.rr.com>
31) [125616] RE: HB - hb receiver troubles
by Harry Hurst <wa3ptg@comcast.net>
32) [125617] Re: Saskatchewan Provincial Hamfest 2002
by Bruce Rattray <rattray@gpfn.sk.ca>
33) [125618] Re: 40673 found?
by "Brad Hernlem" <alihernlem@hotmail.com>
34) [125619] Re: 160m and 80m operations
by "Bob Tellefsen" <n6wg@earthlink.net>
35) [125620] Counties Round #7
by Larry Cahoon <lejek@erols.com>
36) [125621] Re: 'Vox Populi'
by "Russ Hines" <wb8zcc@one.net>
37) [125622] Re: K7RE's QRP Dupe Program
by aluscre <aluscre@neo.rr.com>
38) [125623] Re: 40673 found? (Anyone want MPF-131 type for 20 cents?)
by "Brad Hernlem" <alihernlem@hotmail.com>
39) [125624] Re: 160m and 80m operations
by KENNETH ROBERT MCGUIRE <at902@tcnet.org>
40) [125625] DSP units
by "Joe W2KJ" <w2kj@earthlink.net>
41) [125626] 9913 coax
by "georgekr5c" <georgekr5c@cablelynx.com>
42) [125627] Re: 160m and 80m operations
by Roy <marion@montana.com>
43) [125628] QRP Japanese radio from ww2

by "Steve Farthing" <stephen@stevef.demon.co.uk>
44) [125629] WTB: TenTec 526 (6N2)
by "Dave Fifield" <dave@redhotradio.com>
45) [125630] RE: surplus - T106-2 / 33t #16
by Howard Rubin <hrubin1970@comcast.net>
46) [125631] Re: K7RE's QRP Dupe Program
by Bob Nielsen <nielsen@oz.net>
47) [125632] SL vertical fishing poles?
by "Robert Armstrong" <barmstrong@sisna.com>
48) [125633] Re: 9913 coax
by Dave Gingrich K9DC <gingrich2@dcg.org>
49) [125634] Re: 9913 coax
by Bill ROWLETT <kc4atu@yahoo.com>
50) [125635] Re: SL vertical fishing poles?
by David Gauding <david.gauding@bbs.galilei.com>
51) [125636] Re: SL vertical fishing poles?
by "Mark J. Dulcey" <mark@buttery.org>
52) [125637] Good deal
by "Brian Murrey" <brian@iquest.net>
53) [125638] Re: Counterpoise,ground...Don't understand
by "Marty N5NW" <n5nw@n5nw.org>
54) [125639] Wanted to Buy (WTB:) Spider antenna 15m resonator
by "Marty N5NW" <n5nw@n5nw.org>
55) [125640] Returning to HF operation
by "Michael Colvin" <mcolvin@myrealbox.com>
56) [125641] PP8AZC @21.010 21:35Z
by NV9Z@aol.com
57) [125642] Re: Returning to HF operation
by "w5tb" <w5tb@arrl.net>

Date: Fri, 26 Apr 2002 18:18:20 -0500
From: Dan & Teena Case <dtcase@huxcomm.net>
To: "'qrp-l@Lehigh.edu'" <qrp-l@Lehigh.edu>
Subject: [125586] For Sale: Ten Tec Argonaut 509
Message-ID: <01C1ED4E.CB7A33A0.dtcase@huxcomm.net>

For Sale:

Ten Tec Argonaut 509 SSB/CW QRP transceiver with matching power supply.
10-80 meters. Includes hand mike and manual. Great electrical condition;
a few nicks on the exterior. Digital pics available upon request. Asking
\$275 shipped CONUS.

If interested, contact via e-mail: kb0jul@arrl.net

Thanks & 73,

Dan KB0JUL

Date: Fri, 26 Apr 2002 19:34:35 -0400
From: Howard Rubin <hrubin1970@comcast.net>
To: tracy@bytemark.com
Cc: qrp-1@lehigh.edu
Subject: [125587] RE: SURPLUS: Ferrite Rod Antennas
Message-ID: <NGBBIJLJALHNLHMDICMPGEDICEAA.hrubin1970@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Tracey,

As a first cut, check out the ARRL handbook under resonant circuits. At this Q factor you can ignore the resistance for a pretty good estimate. The formula is --

$$f = 10^3 / 2\pi\sqrt{L \cdot C}$$

f in megahertz
L in uH
C in picofarads
pi = 3.1415928....

Hope this helps.

Howard, N3FEL

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Tracy Markham
Sent: Friday, April 26, 2002 5:40 PM
To: Low Power Amateur Radio Discussion
Subject: SURPLUS: Ferrite Rod Antennas

We had a large run of antennas made, and have a large overage ... specs are as follows -

Rod - R-050400-61 (61 material, 4" L x 0.5" D)
115 Turns #20/41 Litz (20 strands of #41 insulated, silk served)

I tested it on a Quadtech 2200 -
@ 7 MHz:
L = 952 uH
Q = 190
DCR = 1.19 ohm

Have 150 pcs, will entertain offers ... sold to end user 1k qty @ \$4.00 ea.
I imagine there's about a 5% variance in L and Q between units.

PART 2:

I don't remember my formulas, and don't have a handbook out here in Cali -
what capacitance would be required to bring this to resonance at 7.2 MHz /
50 ohms?

Thanks!
Tracy N4LGH

Date: Fri, 26 Apr 2002 23:41:14 GMT
From: na5n@zianet.com
To: qrp-l@lehigh.edu
Cc: qrp-canada@neale.gpfn.sk.ca
Subject: [125588] Prop update for QRPTTF
Message-ID: <20020426234115.22048.qmail@zianet.com>
Mime-version: 1.0
Content-type: text/plain; charset="us-ascii"

Gang,

The sun continued through today in very quiet fashion, meaning no major flares or anything. The solar flux dropped several counts, rather than climb ... solar flux for QRPTTF will be 165 or so. A bit mushier than the 180 predicted earlier in the weak. 10M will still be open at this level, although reflectivity will not be quite as good. Signals will appear a bit weaker with heavier QSB. Even more important to meet on 10M (28.060MHz) on the hour to make those QRPTTF contacts.

The 10MEV protons from the M-class and X-class flares earlier in the week is still hovering around "threshold levels," meaning it is still fueling a minor polar cap absorption event (PCA) for our friends in the higher latitudes. QRPers up there will experience a slightly higher than normal absorption to signals with periods of bursty noise. So when you hear those VE's and KL7's calling CQ ... give them a break and slow down your code speed a bit and repeat your exchange. Conditions will be a bit rough for them yet tomorrow.

A coronal hole appeared today that is spewing nasty stuff at planet earth. No biggie ... just may cause periods of active conditions on saturday, which will be noticeable mostly as bursty noise on 40M. It should have little effect on the higher bands.

So conditions still look quite favorable for a good day on the air.

GL to all, and have a great time.

72, Paul NA5N

Date: Fri, 26 Apr 2002 23:52:02 GMT
From: na5n@zianet.com
To: qrp-l@lehigh.edu
Subject: [125589] QRPTTF from the Rio Grande
Message-ID: <20020426235203.8982.qmail@zianet.com>
Mime-version: 1.0
Content-type: text/plain; charset="us-ascii"

NA5N,
Jan, N0QT and myself will be operating from Escondida Lake, north of Socorro. There is a campground tucked between the lake and the Rio Grande river, such that both will be a couple hundred yards away at most. The lake is way down in water, and the Rio Grande is about the slowest flow I've seen in the spring in years, but hey, it still qualifies as water. I know much of the country is in a drought, but you should see this desert in a drought when you only get 8-9 inches of annual rainfall anyway. Very little is green, and that is a narrow band along the river. The rest of the country is dead-dry and brown, with of course extreme fire danger posted everywhere. So need to be careful I don't start throwing sparks from the FT-817 :-)

We operating from here once before. A nice spot with a few actual, real trees. Only problem I experienced was when I noticed the train tracks were about 30 feet away. When those freights come barreling through ... well, talk about QRM! But it's over in a couple of minutes. Besides, if you like trains, nothing like listening to those 3-4 diesels 20 feet away straining up the 12% grade.

Hope to work a bunch of ya for QRPTTF. It's always nice to get out of the house, take along some friends and have some fun on the air. So hope everyone has a great time, everything works for you well, and of course remain safe. And tie things down if you're in the wind zone!

72, Paul NA5N

Socorro, New Mexico

Date: Fri, 26 Apr 2002 19:05:25 -0500
From: Lew Paceley <lew@paceley.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: kb4cuq@worldnet.att.net
Subject: [125590] Re: End fed Zepp or W3EDP antenna
Message-ID: <000301c1ed7f\$3ba0ada0\$6501a8c0@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

Hi Clyde,
Don't have a W3EDP, but would like to try one out someday. I have an end fed 40m half wave (66ft long) draped over the roof at about 25 ft. in an inverted Vee configuration. We live on a hill here in Austin so I do have a little elevation advantage. I've worked 89 countries QRP on/off since Feb. mostly CW, about 10% 10m sideband. The latest was 9L1JT (may have callsign wrong as the log isn't up right now) in Sierra Leone.

It works pretty well....still would like that beam tho ;-).

Because I have vinyl windows I just run the wire in under the window and across the sash. In other words I close the window on the wire. Works fine and keeps the burglar alarm happy.

GL,
72/73,
Lew
N5ZE

Date: Fri, 26 Apr 2002 19:17:30 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: qrp-1@Lehigh.EDU
Subject: [125591] OT: computer-cdrw
Message-ID: <3CC9EE1A.43DE27F0@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, need to learna about proper media (cd's) for use in CD-RW drive

- I know that a cd-r is a permanent write, and you can redo cdrw discs - my question is about the speed -
for instance, in 8x-4x-32x, what do the first two numbers designate and will a cdr for 1-4x (marked on case) also work in a 24x-10x-40x drive?
thanks
Dave K8BBM

Date: Fri, 26 Apr 2002 21:00:34 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: <pstrdave@kdsi.net>
Subject: [125592] Re: computer-cdrw
Message-ID: <05f301c1ed86\$f16652a0\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The answer, of course, is "it depends".

Some CD drives can sense the media and adjust accordingly. Some recording software can test the speed that the media can support.

More significantly, perhaps, some drives just seem to get along with some media. I would suggest getting small quantities and test. When you find something that works well, stick with it. Whenever you upgrade your drive to next year's fastest thing, test again.

My Memorex drive seemed to really like Verbatim media. I upgraded to an HP drive and it doesn't like the Verbatim media at all. Memorex media, tho, works great. Go figure.

The media is pretty cheap these days, so you can afford to burn a little up testing before you go out and buy a spindle of 500 disks.

Oh yeah, something else ... once you have a fast CD writer, CDs seem to multiply like coat hangars. Those crystal cases that seemed so nice when you have 10 CDs don't look so attractive when you have a few hundred laying around. Dispense with the crystal cases and get some sleeves - they're cheaper and a whole lot more compact.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "David Heintzleman" <pstrdave@kdsi.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, April 26, 2002 8:17 PM
Subject: OT: computer-cdrw

> Hi, need to learn about proper media (cd's) for use in CD-RW drive
> - I know that a cd-r is a permanent write, and you can redo cdrw
> discs - my question is about the speed -
> for instance, in 8x-4x-32x, what do the first two numbers designate and
> will a cdr for 1-4x (marked on case) also work in a 24x-10x-40x drive?
> thanks
> Dave K8BBM

Date: Fri, 26 Apr 2002 21:15:01 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [125593] Its all in the wrist...
Message-ID: <13c.d6fae43.29fb5595@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Thinking about using light weight paddles/keys in the field got me thinking how to best anchor them. I ended up getting an 1/8 inch piece of oak at Home Depot (4in by 10 inch) and install appropriate mount on one end and the wrist and forearm hold it in place.

I hope to cut some thin lexan as a lighter alternative. I found that using a wrist support you can also lash board to your wrist for some mobility and still be able to send.

This is such an inventive group so this is probably not new....just all in the wrist.

Date: Fri, 26 Apr 2002 21:19:30 -0400
From: geoff allsup <gallsup@whoi.edu>
To: Mercxx@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [125594] Re: 160m and 80m operations
Message-ID: <3CC9FCA2.70434162@whoi.edu>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mercxx@aol.com wrote:

>
> Good afternoon,
> Is there anyone who is doing QRP on the 80 and 160 meter bands? If so what
> rigs are you using? Thanks and have a great evening..
>

Well, I'm about to start running a PSK80 board on 80M (as soon as I get enough wire in the air anyway!!) Rumor is it's a good low power mode ---

So does intent to be on 80M "real soon now" count? :-)

72,
geoff
--

Geoff Allsup, W10H gallsup@whoi.edu or w10h@arrl.net
Research Engineer Upper Ocean Processes Group
Woods Hole Oceanographic Institution Woods Hole, MA, USA

Date: Fri, 26 Apr 2002 21:48:40 EDT
From: IamSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [125595] Counterpoise,ground...Don't understand
Message-ID: <15f.cd7c158.29fb5d78@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,
Not being anything near an EE maybe someone can tell e the theory of operation of ground vs counterpoise.
I called B&W about the window antenna.
They told me if my windows have a steel frame I must insulate the mount because it will become part of the counterpoise.
Well, I did that but my rig is grounded to my tuner.
My tuner is grounded to a cold water pipe via 16# GS insulated wire and the braid from the coax is grounded to the back of the rig.
Following this the other way the mount is still grounded because the braid is grounded to the rig.
I mailed B&W and did not receive a reply
There is no way I can ground my gear without having the counter poise(NOT) become a part of it.

What am I missing here?
appreciate any tips,suggestions,etc.
Bob
AF2Qrp <tm>

Date: Fri, 19 Apr 2002 13:39:09 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: "H. Kohl K8DD" <k8dd@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [125596] RE: A Suggestion Re: ARRL PSK-31 Bulletin
Message-ID: <Pine.OSF.4.44.0204191337510.76400-100000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

Some of us on this newsgroup (for example myself) happen to be Windows
Programmers. Did you forget to put in the "smilies" or are you trolling?

Brian.

On Fri, 19 Apr 2002, H. Kohl K8DD wrote:

> And that's a far better place to put your \$\$\$!! More bang for the buck
> than with a Windows programmer who needs restored from backup every morning
> at 8AM and reboots at 10AM (break #1), Noon (lunch) and 3PM (break #2).

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

There is nothing to it. You only have to hit the right notes at the
right time and the instrument plays itself.
- Johann Sebastian Bach

Date: Fri, 26 Apr 2002 22:29:43 -0400
From: "Richard H. Arland" <rarland@earthlink.net>
To: ". Eastern PA QRP Club" <EPA-QRP@yahoogroups.com>,
"QRPP-I@yahoogroups.com" <QRPP-I@yahoogroups.com>, qrp-1@lehigh.edu
Subject: [125597] K7RE's QRP Dupe Program
Message-ID: <3CCA0D17.A1556609@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang:

This is a general "broadcast" message to all who may be interested in Brian Kassel's, K7RE, QRPDupe contesting program that was featured in May QRP Power column in QST.

Apparently Brian's website host decided to change the URL AFTER the article went to press.

The correct URL for getting onto Brian's site and downloading QRPDupe is:

<http://members.dancris.com/~bkassel/>

This will get you on Brian's site, and at the bottom of the page is instructions for downloading the program.

Hope this helps (and reduces my incoming e-mail). Sorry for the confusion.

73 Rich K7SZ
Editor, QRP Power

Date: Fri, 26 Apr 2002 22:53:17 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [125598] QRPTTF
Message-ID: <3.0.6.32.20020426225317.007ac7a0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Okay, almost ready to head out tomorrow.

Figured out I could make my 20 Meter "tent pole vertical" work on 15 meters by adjusting the whip on over the loading coil and can make it work on 10

meters by jumpering out the loading coil and adjusting the whip again. So, I'll try to work 20, 15 and 10 meters.

Got almost 20 Ahrs of gel-cells charged up, 'cuz the rig I'll be using is a real current hog, 1/2 amp on Rx. Hey, I designed it to be a base station rig and wasn't paying much attention to how much current it was sucking!

I decided to slap together a little SWR bridge, so that I can be sure I have the whip on the vertical set right when I change bands. Had a little Stockton bridge already built, just need to be put into a box. After doing that, I thought, hey, this thing has a little meter on it, (duh) why not add another switch, a resistor and binding post and use it to monitor battery voltage too? So I did. When the meter goes a little below mid scale, I know it's time to change batteries :-)

Now, lets hope propagation is with us. Lets also hope it warms up a little tomorrow. It was cold, windy and snow flurries out today! I think the end of April is still a bit eary for a field event up this way!

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Fri, 26 Apr 2002 22:49:45 -0400
From: "Tom Dooley" <tdooley@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [125599] QRPTTF
Message-ID: <025c01c1ed96\$30ccf3e0\$e24e3842@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

The North GA QRP Club will be operating QRPTTF from Lake Lanier, GA (just north of Atlanta). We will be using the call sign of NQ4RP.

We hope to be able to work many of you and look forward to having a great time. Stay safe and warm out there!

73
Tom
K4TJD

Date: Fri, 26 Apr 2002 23:22:45 -0400
From: "Dave" <wr3i@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
IamSF5@aol.com
Subject: [125600] Re: Counterpoise,ground...Don't understand
Message-ID: <3CC9E145.22548.C59208@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Bob,

I am not an EE either but it helps me to think of the counterpoise as the other half of a dipole if the rig is grounded then the counterpoise should be attached to coax shield at base of antenna. If the rig is not grounded then you can attach the counterpoise at the rig and usually the counterpoise need not be a full 1/4 wave in this case as coax shield will make up the rest hope this help

BTW I smell a long Thread on This one Hi Hi

Rgds

Dave

WR3I

Date: Fri, 26 Apr 2002 23:57:14 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <Mercxx@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [125601] Re: 160m and 80m operations
Message-ID: <003a01c1ed9f\$9e315260\$5cc7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For home and field, I use a SW80 on eighty meters and a KD1JV 160m rig, Both VY FB. For Backup, it's the IC 706 MKIIG. All are connected to 88' zepps via home brew ladderline. Have made some great qso's on both bands, and I'm planning more antlers & gear for the ebb of the sunspot cycle. There are further developments in the works as this is a very quiet location and can't be ignored. Denks Gott!

73

AA1MY

Date: Fri, 26 Apr 2002 23:59:49 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <rmcgee@csusb.edu>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [125602] Re: Erecting Antennas for Field Day?
Message-ID: <004601c1ed9f\$fa49ad40\$5cc7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Don't worry about a thing. Just get it over the tops of the highest trees and
fire away! Sling shot is excellent. Check out NJQRP web site for some hints.

73

AA1MY

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm
----- Original Message -----
From: "Rich McGee" <rmcgee@csusb.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, April 26, 2002 5:38 PM
Subject: Erecting Antennas for Field Day?

> QRP People;
>
> Somewhat off-topic, but I will be running a QRP station during Field Day....
>
> I've just ordered a "W9INN" dipole, and plan go to a local campground for
> Field Day at the end of June. Since I've never done this type of thing
> before, I'd like to ask a question from those on this list who know such
> things:
>
> Any hint for getting the new dipole as high as possible? It's 87 feet long,
> and can be used as an inverted V, but that makes things somewhat more
> directional than I'd prefer. I've already been told I can "slingshot
> launch" a haul line through the trees, but how badly will limbs and leaves
> throw off the match? Likewise, I've been told that the dipole needs to be

> at least 30 feet high, which means I'd have to put guy wires on any support
> poles that I require (I don't know if trees near the campsite will be close
> enough to run coax back to the rig, so I have to prepare for both cases)
>
> If anyone has any ideas, I'd love to hear them!
>
> Rich de KY60
>

Date: Fri, 26 Apr 2002 23:13:30 -0500
From: "George, W5YR" <w5yr@att.net>
To: "qrp-l@Lehigh.edu" <qrp-l@Lehigh.edu>
Subject: [125603] QRPTTF
Message-ID: <3CCA256A.B9981208@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The North East Texas QRP group - NETXQRP - will be holding forth at my qth
on the banks of the creek at the back of my property in Fairview, TX.
Operation will be on all bands one time or another during the day.

Appreciate your business! <:}

--

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Date: Sat, 27 Apr 2002 00:50:06 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: pstrdave@kdsi.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [125604] Re: OT: computer-cdrw
Message-ID: <3CCA2DFE.4090907@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

David Heintzleman wrote:

> Hi, need to learna about proper media (cd's) for use in CD-RW drive
> - I know that a cd-r is a permanent write, and you can redo cdrw

> discs - my question is about the speed -
> for instance, in 8x-4x-32x, what do the first two numbers designate and
> will a cdr for 1-4x (marked on case) also work in a 24x-10x-40x drive?
> thanks

The first number is the maximum speed at which you can write CD-R discs.
The second number is the maximum speed for CD-RW. The third number is
the maximum read speed.

A CD-R marked for lower speeds than your drive will work, but it will
not be written at full speed. CD-R and CD-RW discs have tags that tell
your software what the disc's maximum speed is; any good piece of CD
writing software will respect that limit.

Date: Sat, 27 Apr 2002 06:29:10 -0400
From: "Pastor-KC1DI" <elbc@pivot.net>
To: <IamSF5@aol.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [125605] Re: Counterpoise,ground...Don't understand (Long)
Message-ID: <003b01c1edd6\$5f3249c0\$c1a5ba42@dor>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: <IamSF5@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, April 26, 2002 9:48 PM
Subject: Counterpoise,ground...Don't understand

> Hi Gang,
> Not being anything near an EE maybe someone can tell e the theory of
> operation of ground vs counterpoise.
> I called B&W about the window antenna.
> They told me if my windows have a steel frame I must insulate the mount
> because it will become part of the counterpoise.
> Well, I did that but my rig is grounded to my tuner.
> My tuner is grounded to a cold water pipe via 16# GS insulated wire and
the
> braid from the coax is grounded to the back of the rig.
> Following this the other way the mount is still grounded because the braid

is

> grounded to the rig.
> I mailed B&W and did not receive a reply
> There is no way I can ground my gear without having the counter poise(NOT)
> become a part of it.
> What am I missing here?
> appreciate any tips,suggestions,etc.
> Bob
> AF2Qrp <tm>

Hi Bob,

Good Question, The Main Difference between a Ground and counterpoise is that the Counterpoise is usually tuned to the Frequency of operation.. It is normally a wire about 1/4 wave long this will place a Low impedance at the point of attachment and thus provide a low impedance RF Ground connection at that point (usually at the tuner ground or rig ground.. (some use what the manufacturers call an Artificial ground tuner.) Which will tune whatever you have for a ground system to resonance at the operating frequency.

If it is attached at the feed point of a vertical type antenna it is usually call a radial wire , but not always.

A ground such as you have to your water pipe, may or may not act as a counterpoise. depending upon the complex impedance, which is difficult to measure with such a setup. It may serve as a good counterpoise on some frequencies and not on others. The one advantage of the counterpoise is that you can to some degree control what environment the RF return path will take , thus taking advantage of getting it clear of metal structures , building wiring and things such as that.

If your counterpoise is tuned to the operating frequency. and the Ground through the coax braid to the tuner and rig is also connected at that point. The connection with the lowest impedance will effectively become the counterpoise for the antenna system.

For Example: If the wire counterpoise is something other than 1/4 wave at the operating frequency and the combination of the Coax braid and ground connection provide a Low impedance connection then the coax and ground connection combination will effectively act as the counterpoise.. (this may or may not cause problems with RF in the Shack and on the rig or other equipment.)

In this case any counterpoise wire would have little or no effect on Antenna performance and may be disconnected.

If on the other hand the counterpoise wire is tuned ,IE. 1/4 wave, 3/4 wave or any odd multiple of 1/4 wave. or is Tuned with an artificial ground tuner , then at the point where it attaches to the system it effectively cuts off RF return flow from the rest of the system, for example the coax that runs from the base of the vertical to the rig/tuner.

If it is attached to the tuner or rig ground post then it effectively will remove RF Voltage from the rig.

One exception to this rule is if both the Coax /ground system on the rig, and the counterpoise both present a low impedance connection (as may be the case if the coax from the tuner/rig) is a electrical quaterwave. then the RF return current will be devided between both and you may still have a problem with rf in the Shack.. in such cases a Choke balun in the coax will help disrupt current flow back to the shack.

A WORD OF CAUTION: There will be high RF voltage at the end of any counterpoise wire.. insulate the end will from other objects and keep it out of the reach of kids and pets. I've actually seen a radial wire have a corrona effect on the end in a high power system.

Hope this is of some help.
73 /72 Dave KC1DI

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.351 / Virus Database: 197 - Release Date: 4/19/02

Date: Sat, 27 Apr 2002 05:37:13 -0500
From: "Jay Henson" <aj4ay@worldnet.att.net>
To: <qrp-l@lehigh.edu>
Subject: [125606] QRPTTF
Message-ID: <002f01c1edd7\$7eb61be0\$2470560c@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hello to everyone,

Dave, AB9CA and I, AJ4AY will be operating marine mobile (MM) during the QRPTTF.

We have been given permission to operate from the deck of the LST-325 which is moored just north of Mobile. This is the vessel that the navy veterans brought from Europe to the US in late 2000 and early 2001. They are an amazing group of gentlemen and durn fine seamen.

We should be operational from 1100 CDT (give or take) until 1700 or so CDT (depending on breaks, etc.). Rigs will include an SW40 and a K2. Antennas will be a deck mounted vertical and a couple end fed long wires. Dave and I

will be swapping between radios/antennas to give us both an opportunity to work as many of you as we can on all bands. Whoever is using the K2 will give 10 meters a try at the top of each hour and stay there as long as we can copy anyone.

Be careful! Be safe! And have FUN!!!!

See you on the radio - tomorrow.

Jay

AJ4AY Mobile, AL

FISTS #7917 ARCI #8131 SOC#220 FP# - 115

Date: Sat, 27 Apr 2002 07:04:31 EDT
From: IamSF5@aol.com
To: elbc@pivot.net, qrp-1@lehigh.edu
Subject: [125607] Re: Counterpoise,ground...Don't understand (Long)
Message-ID: <12e.1080a949.29fbdfbf@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 4/27/02 6:29:17 AM Eastern Daylight Time, elbc@pivot.net writes:

<<

Hi Bob,

Good Question, The Main Difference between a Ground and counterpoise is that the Counterpoise is usually tuned to the Frequency of operation.. It is normally a wire about 1/4 wave long this will place a Low impedance at the point of attachment and thus provide a low impedance RF Ground connection at that point (usually at the tuner ground or rig ground.. (some use what the manufacturers call an Artificial ground tuner.) Which will tune whatever y >>

Hi Dave,

I understand this 100%.

B&W told me different.

They said any other wire or clamping the mount to my steel window frames will detune the counterpoise.

Thanks for taking the time writing the letter.

There is a lot of info there and I did print it out.
My SWR is 1.3 and the only thing that changes it is moving the counterpoise
so I removed the tuner and my SWR bridge shows a 1.1 to 1 with the tuner out
of the line.
I have a bit of RF in the shack only when running 100.
But most of the times I just run the NC-20 and the MFJ.
Again thanks for all the tech info
Appreciate it
Bob
AF2Qrp <tm>
Never argue with 7 Men if you only have a six shooter

Date: Sat, 27 Apr 2002 07:54:30 -0400
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@lehigh.edu
Subject: [125608] Re: QRPTTF this Saturday!
Message-ID: <5.0.2.1.2.20020427075357.022f1360@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

What goes around comes around...

8-)

GL!

72 de Mike, K04WX
Michael C. Boatright

Date: Sat, 27 Apr 2002 07:58:15 -0400
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@lehigh.edu
Subject: [125609] Re: QRPTTF
Message-ID: <5.0.2.1.2.20020427075609.022f5d90@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

If nothing else, Jay's team gets the "how cool (we ain't talking ice,
either) a place can you find to operate?" award. Be sure to send photos
(and/or post some on the web).

Having Way Way To Much Fun!

GL gents!

72 de Mike, K04WX
Michael C. Boatright

Date: Sat, 27 Apr 2002 06:50:21 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [125610] FS Index Labs QRP Plus
Message-ID: <Pine.LNX.4.44.0204270643130.1588-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have this fine QRP radio surplus to my needs. It covers 160 through 6 meters and has a general coverage receive capability. Full break-in cw and SSB. I have the book and everything.

This unit has never been mobile but it's a perfect QRP mobile radio.

I'm asking \$300.00 for this radio plus shipping. I suggest Priority Mail which will cost about \$15.00.

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Sat, 27 Apr 2002 08:51:57 -0400
From: Harry Hurst <wa3ptg@comcast.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [125611] HB - hb receiver troubles
Message-ID: <HIEKL00DELDPNBOHKICHAEBDCBAA.wa3ptg@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

I have assembled the receiver section of the NN1G transceiver in the 1995 handbook. Earlier this week I believed there was a problem with the LM386 circuit. When I place the output of a 4 MHz oscillator near the input of the

crystal filter, I can hear a tone. When the radio is turned off, the volume gets very loud before cutting off. This morning I disconnected the output of the 2nd mixer(U3, pin 4) and connected it to another audio amp. The symptom is still there with the outboard amp.

There was also an error in the schematic. Pin 6 of the second mixer is incorrectly labeled Pin 5. Were there any other errors that I missed?

I've gone over the radio carefully, and found no wiring errors. I know good RF wiring practices, and kept lead length short, and keep input leads away from output leads.

I checked the radio against Table 17.3 in the article. The mixer current was a bit low, 13 ma instead of 16 ma. I now suspect the LM1350 is oscillating. I don't have any experience with the chip, so don't know what to expect. I'm open to suggestions.

* Thanks * to all who helped with their great suggestions last week. This list is great!

72

Hap, WA3PTG

Wilmington DE

Date: Sat, 27 Apr 2002 08:20:20 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: qrp-l@Lehigh.EDU
Subject: [125612] FS: Century 21 &
Message-ID: <3CCAA594.D7D544ED@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

repost - buyer dropped out - FOR SALE -
TenTec Century 21 transceiver - analog readout - 80-10 mtrs, no WARC,
CW/SSB listen, CW transmit - max 70W in, about 25-30 out - built in AC
supply
matching outboard crystal calibrator, plugs in rear of rig.
includes: Oak Hills switched capacitor audio filter, SCF 1 -
and Oak Hills Digital Dial - DD 1, with manual for digital readout -
manual for rig
quite clean, no flaws - been to Tentec about year ago - the original
push buttons on front panel were replaced by them with square buttons -

\$175 shipped/insured CONUS -

Dave Heintzleman

K8BBM

QCWA 24662 Fists 4293 QRP ARCI 3654 Colorado QRP 157 MI QRP 124

Date: Sat, 27 Apr 2002 13:32:37 +0000

From: "Leon Heller" <leon_heller@hotmail.com>

To: wa3ptg@comcast.net, qrp-l@Lehigh.EDU

Subject: [125613] Re: HB - hb receiver troubles

Message-ID: <F1048KudyJNgGWzOPjX00001bb6@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

[deleted]

>I checked the radio against Table 17.3 in the article. The mixer current
>was a bit low, 13 ma instead of 16 ma. I now suspect the LM1350 is
>oscillating. I don't have any experience with the chip, so don't know what
>to expect. I'm open to suggestions.
>

I've found the MC1350 to be very stable when I've used it. If the Rx has AGC
try disconnecting it and taking the MC1350 gain control pin to the slider of
a suitable pot. across the supply. You can then see if it oscillates as you
increase the gain towards max.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

Chat with friends online, try MSN Messenger: <http://messenger.msn.com>

Date: Sat, 27 Apr 2002 09:30:57 -0400

From: "Howard Kraus" <K2UD@adelphia.net>

To: <qrp-l@Lehigh.EDU>

Subject: [125614] 40673 found?

Message-ID: <005d01c1edef\$c3b6fa80\$07633018@buf.adelphia.net>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

More than a few folks were asking about 40673's recently. I came across this on the Glowbug list. A stock of Heath parts was purchased recently. See them at
www.d8apro.com/heath3.htm
Listed on it was the 40673, apparantly in stock, updated 4/11/02. No price.

I have not dealt with them, no affiliation etc.

72

Howard Kraus, K2UD

Date: Sat, 27 Apr 2002 10:00:07 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: QRP-L <qrp-l@lehigh.edu>, FP List <fpqrp-l@mpna.com>, Elecraft <elecraft@mailman.qth.net>
Subject: [125615] It's here it's here...
Message-ID: <3CCAAEE7.1583B676@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

...the 2002 Florida QSO Party!

Starts today at 1600z. Sunday starts at 1200z. Ten hours of operating time each day.

<http://www.qsl.net/fqp>

73
Paul K4FB
<http://www.fcg.club>

Date: Sat, 27 Apr 2002 10:14:54 -0400
From: Harry Hurst <wa3ptg@comcast.net>
To: wa3ptg@comcast.net,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [125616] RE: HB - hb receiver troubles

Message-ID: <HIEKL00DELDPNBOHKICHGEBECBAA.wa3ptg@comcast.net>

MIME-version: 1.0

Content-type: text/plain; charset=us-ascii

Content-transfer-encoding: 7BIT

Got it!

Pin 5 of the second mixer was grounded. Lifted it from ground, and the volume came WAY up. Maybe I should try to wake up in the morning before plugging in the soldering iron.
Thanks anyway.

Hap, WA3PTG
Wilmington DE

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Harry Hurst

Sent: Saturday, April 27, 2002 08:52

To: Low Power Amateur Radio Discussion

Subject: HB - hb receiver troubles

I have assembled the receiver section of the NN1G transceiver in the 1995 handbook. Earlier this week I believed there was a problem with the LM386 circuit. When I place the output of a 4 MHz oscillator near the input of the crystal filter, I can hear a tone. When the radio is turned off, the volume gets very loud before cutting off. This morning I disconnected the output of the 2nd mixer(U3, pin 4) and connected it to another audio amp. The symptom is still there with the outboard amp.

There was also an error in the schematic. Pin 6 of the second mixer is incorrectly labeled Pin 5. Were there any other errors that I missed?

I've gone over the radio carefully, and found no wiring errors. I know good RF wiring practices, and kept lead length short, and keep input leads away from output leads.

I checked the radio against Table 17.3 in the article. The mixer current was a bit low, 13 ma instead of 16 ma. I now suspect the LM1350 is oscillating. I don't have any experience with the chip, so don't know what to expect. I'm open to suggestions.

* Thanks * to all who helped with their great suggestions last week. This list is great!

72

Hap, WA3PTG

Wilmington DE

Date: Sat, 27 Apr 2002 08:48:51 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@LeHigh.EDU>
Subject: [125617] Re: Saskatchewan Provincial Hamfest 2002
Message-ID: <Pine.LNX.4.33.0204270846350.28183-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Saskatchewan Provincial Hamfest will be held in the city of Regina
this year on July 5,6,7th., sponsored by the Regina Amateur Radio
Association (RARA)...

The location will be the Ecole Monseigneur de Laval located at the corner
of Cowan Crescent and Hillsdale Avenue. This is in the south-east section
of the city not far from the TransCanada highway.

A website has been created at: <http://www.qsl.net/saskhamfest>

The hamfest lottery prize will be a SONY Digital Camera worth retail
\$500.00...

Given the present state of the Canadian dollar compared to the US dollar
and especially the English pound, this would be a nice inexpensive hamfest
for our international amateur friends to take in this year.

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sat, 27 Apr 2002 16:04:46 +0000

From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-1@lehigh.edu
Cc: K2UD@adelphia.net
Subject: [125618] Re: 40673 found?
Message-ID: <F154oZolmRBaYFkuutS00001034@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Another joint what claims to have 'em is:

<http://store.yahoo.com/americanmicrosemiconductor/40673.html>

Lot's of interesting obsolete stuff there.

DISCLAIMER: I have no commercial or other association with aforementioned establishment. I found this site by serendipity.

Brad KG6IOE

Subject: 40673 found?
From: Howard Kraus (K2UD@adelphia.net)
Date: Sat Apr 27 2002 - 09:30:57 EDT

More than a few folks were asking about 40673's recently. I came across this on the Glowbug list. A stock of Heath parts was purchased recently. See them at www.d8apro.com/heath3.htm
Listed on it was the 40673, apparantly in stock, updated 4/11/02. No price.

I have not dealt with them, no affiliation etc.

72

Howard Kraus, K2UD

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>.

Date: Sat, 27 Apr 2002 07:28:14 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>

To: <qrp-1@lehigh.edu>
Subject: [125619] Re: 160m and 80m operations
Message-ID: <MABBJOEABOILMKCJCLFCOEJGDEAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Steve

I work 160m every winter QRP. I've been in all the cw contests for the past three winters, and have a ball with my K2 at 5w.

As you would expect, the antenna is the weakest link. I'm using a 40 ft vertical with five 30 ft radial top loading wires plus a loading coil at the top. Also the ground system is critical, it must be good. I'm using an overhead counterpoise of 20 parallel wires 3 ft apart, running from the top of my back fence to the back edge of my house roof, then on the roof to the front of the house. Seems to work well, and I can QSO the east coast with halfway decent conditions.

I'm up to 38 states worked toward my 160m QRP WAS now.

We are now past the season of good conditions on 160m. At night the band is pretty much deserted out here on the left coast. Early morning, say 2 AM local time, still can produce east coast contacts though.

Hope this helps. Hope to hear you on this Fall when conditions pick up again.

73, Bob N6WG

Date: Sat, 27 Apr 2002 14:30:09 +0000
From: Larry Cahoon <lejek@erols.com>
To: qrp-1@lehigh.edu
Subject: [125620] Counties Round #7
Message-ID: <5.1.0.14.0.20020427142458.024b7670@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

This week I move to the Dakotas. I'm now down to 139 to go with all counties worked at an average power of 4.96 watts. Now I really don't know that I expect to find anyone on the list in these counties, but you don't know unless you ask. I haven't had too much luck here so far, but we will see. I might be tempted to say I'll get some takers when I get to CA, but I've got CA done all QRP.

Well here is the list:

ND - Dunn, Golden Valley, Grant, Hettinger, McHenry, Mercer, Sioux

SD - Campbell, Edmunds, Lawrence, Potter

I'll take any of them QRP-CW

Tnx and 73 de Larry.....WD3P in MD

<http://www.qsl.net/wd3p/>

Date: Sat, 27 Apr 2002 11:07:32 -0400

From: "Russ Hines" <wb8zcc@one.net>

To: <nn1g@earthlink.net>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [125621] Re: 'Vox Populi'

Message-ID: <007401c1edfd\$41cd0ab0\$4307c00a@wb8zcc>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I haven't seen too much clamour for the Yugo or Tempo transceivers either.

But, of course, I'm the second to last guy to hear about most things. ;-)

73,

Russ Hines

WB8ZCC

----- Original Message -----

From: "Dave Benson" <nn1g@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, April 26, 2002 4:14 PM

Subject: Re: 'Vox Populi'

> Dennis-

>

> Yes, it's true- it's true! . It seems that whenever a product (any product)

> is discontinued, everyone wants one. Except for the Edsel, of course.

>

> 73- Dave

>
>
> *****
> Dave Benson, K1SWL
> dave@smallwonderlabs.com
> http://smallwonderlabs.com
> *****
> -----Original Message-----
> From: Dennis Doran <wb8wtu@yahoo.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Date: Friday, April 26, 2002 9:58 AM
> Subject: THE PEOPLE HAVE SPOKEN !!!
>
>
> Well....sort of. While checking out SWL's website
> and those psk-31 do-hickeys, I noticed a message
> from Mr. Benson. It said the FreqMite boards have
> been re-ordered, and will be available again
> approx. May 15th.
>
> Is this true, Dave ?????? (and what am I
> supposed to do with that tractor-trailer full of
> FreqMites??? There goes my retirement, pal.)
>
> 73,
> dennis
> WB8WTU
>
>
>
> -----
> Do You Yahoo!?
> Yahoo! Games - play chess, backgammon, pool and more
> http://games.yahoo.com/
>
>
>

Date: Sat, 27 Apr 2002 11:33:13 -0400
From: aluscre <aluscre@neo.rr.com>
To: rarland@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [125622] Re: K7RE's QRP Dupe Program
Message-ID: <200204271533.g3RFXG105617@clmboh1-smtp3.columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

you will also need to change address for download (link on page is wrong)

<http://members.dancris.com/~bkassel/QRPDUPE.ZIP>

"Richard H. Arland" wrote:

> Gang:
>
> This is a general "broadcast" message to all who may be interested in
> Brian Kassel's, K7RE, QRPDupe contesting program that was featured in
> May QRP Power column in QST.
>
> Apparently Brian's website host decided to change the URL AFTER the
> article went to press.
>
> The correct URL for getting onto Brian's site and downloading QRPDupe
> is:
>
> <http://members.dancris.com/~bkassel/>
>
> This will get you on Brian's site, and at the bottom of the page is
> instructions for downloading the program.
>
> Hope this helps (and reduces my incoming e-mail). Sorry for the
> confusion.
>
> 73 Rich K7SZ
> Editor, QRP Power

--

|-----|
 Anthony A. Luscre
 K8ZT
 Stow, Ohio
|-----|
 Visit My Website at
 <http://www.qsl.net/k8zt>
|-----|

Date: Sat, 27 Apr 2002 16:43:40 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu

Subject: [125623] Re: 40673 found? (Anyone want MPF-131 type for 20 cents?)
Message-ID: <F269i0JhsgVy134IpLc00001f8c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

BTW, if there is sufficient interest, I can probably lay my hands on some MPF-131 type dual gate MOSFETs for \$0.20 each (compare to almost \$4 at Dan's Small Parts). These are house numbered parts manufactured by General Instrument. They have tabs formed for insertion through a PC board but are also suitable for surface mounting. Sufficient interest means requests totalling a few hundred parts. If you want to experiment with dual gate MOSFETs this is an opportunity.

Let me know if you are interested.

Brad

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Sat, 27 Apr 2002 10:52:02 -0400 (EDT)
From: KENNETH ROBERT MCGUIRE <at902@tcnet.org>
To: Mercxx@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [125624] Re: 160m and 80m operations
Message-ID: <Pine.LNX.4.21.0204271037190.30501-100000@hendryx.tcnet.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 26 Apr 2002 Mercxx@aol.com wrote:

> Is there anyone who is doing QRP on the 80 and 160 meter bands? If
> so what rigs are you using? Thanks and have a great evening..

I normally use my K2 now, but before I had it, I used a DSW-80... Both made contacts, but I don't have good antennas for those bands. If you doubt if QRP works on those bands, there is plenty of evidence that it is possible. Look at the 30's when many HB transmitters were only 5-10 watts... Also look at what some hams did on 160 with their terrible power restrictions on 160 because of LORAN. The key is antennas.

I have not been able to put up a real antenna, but just for yucks I dropped in on the ARRL 160 contest last December. Rig was my K2. Antennas was a loop around the ceiling of my bedroom - about 65 feet of wire. I shorted both ends together and worked it against a radiator.

You know what? I was actually able to work a few people. Most were in the midwest, but I managed a contact with GA. I certainly will not work WAS or any DX with this setup, but I got a few stations in the logbook.

Ken McGuire
KC8LTL in EN74cp
at902@tcnet.org

Date: Sat, 27 Apr 2002 13:27:37 -0400
From: "Joe W2KJ" <w2kj@earthlink.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [125625] DSP units
Message-ID: <003401c1ee10\$d3ff5ce0\$c934323f@cdcvh01>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy Gang:

I would like to thank all those who provided comments regarding DSP units and their capabilities and actual real-world performance.

Am now interested in purchasing the Timewave model DSP 9+ or the DSP 59+ with recent firmware versions. Believe the new DSP-599ZX is out of my price range.

Does anyone have one of these units that is excess to their needs (perhaps by having upgraded to a DSP capable transceiver??)

Will put unit to good use on QRP and also on A0-40 satellite operation.

73, Joe W2KJ
I QRP, therefore I am

Date: Sat, 27 Apr 2002 12:30:46 -0500
From: "georgekr5c" <georgekr5c@cablelynx.com>

To: <qrp-1@Lehigh.EDU>
Subject: [125626] 9913 coax
Message-ID: <000901c1ee11\$443ba9a0\$9e08cc18@lee>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Some time back there was a discussion on 9913 Coax cable and some of the things that should be considered before buying. I can't remember the "no nos" that were brought up. Can someone please e-mail me privately those things mentioned? Thanks, George KR5C

Date: Sat, 27 Apr 2002 08:44:01 -0600
From: Roy <marion@montana.com>
To: Mercxx@aol.com,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [125627] Re: 160m and 80m operations
Message-ID: <4.3.1.2.20020427082246.00a8a7d0@mail.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:28 PM 4/26/02 -0400, Mercxx@aol.com wrote:

>Good afternoon,
> Is there anyone who is doing QRP on the 80 and 160 meter bands? If so
> what
>rigs are you using? Thanks and have a great evening..
>
>72
>Steve N4TKP

Been doing 160 and some 80 for years. Rigs were Sierra at first, now mostly the K2. Antenna is a 160 loop. As always, the antenna makes or breaks you on qrp. A 160 loop at any height is kick butt all band antenna, if you have the room. 160 is also loaded with WY Operators. We have the room for big antennas! 73 Roy AB7CE, Montana

Date: Sat, 27 Apr 2002 19:32:59 +0100
From: "Steve Farthing" <stephen@stevef.demon.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [125628] QRP Japanese radio from ww2

Message-ID: <MABBLGJEEFHCJIEHNCOFGEGBDMAA.stephen@stevef.demon.co.uk>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Steve Farthing [mailto:stephen@stevef.demon.co.uk]
Sent: Saturday, April 27, 2002 6:28 PM
To: GQRP Mailing List
Subject: QRP Japanese radio from ww2

Guys,

<http://www.stevef.demon.co.uk/Antiques/ww2japrig.htm> links to a site which documents a very interesting radio I need to sell on behalf of an old timer. Hope you enjoy it. Any suggestions about other sites/newsgroups I can post the link to would be good as I am clueless when it comes to military stuff.

Thanks in advance,

Steve G0XAR

PS I'll be attending Dayton this year and will bring the rig with me.

Date: Sat, 27 Apr 2002 11:47:11 -0700
From: "Dave Fifield" <dave@redhotradio.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [125629] WTB: TenTec 526 (6N2)
Message-ID: <004201c1ee1b\$f12695d0\$0200a8c0@AD6A>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone have a TenTec 526 "6N2" rig they want to part with?

Thanks es 72,
Dave, AD6A

Date: Sat, 27 Apr 2002 14:55:19 -0400
From: Howard Rubin <hrubin1970@comcast.net>
To: tracy@bytemark.com
Cc: qrp-1@lehigh.edu
Subject: [125630] RE: surplus - T106-2 / 33t #16
Message-ID: <NGBBIJLJALHNLHMDICMPIEDOCEAA.hrubin1970@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Tracey,

What are core dimensions? So you have information on the core material?
Are they RF or power frequency ferrites? For the looks of things, I would
think in the ultrasonic range, but it's hard to guess dimensions on the
computer screen. A picture next to a steel rule might help.

Were you able to derive the required capacitance for those ferrite rods? Do
you need additional help?

Please advise,
Howard Rubin, N3FEL

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Tracy Markham
Sent: Tuesday, February 12, 2002 1:12 PM
To: Low Power Amateur Radio Discussion
Subject: OT:surplus - T106-2 / 33t #16

I have several hundred of these cores, wound, with a light varnish (turns
can be removed easily as the varnish is not thick). Leads are tinned.

Booger backed out on the order :(

I will entertain reasonable offers.

A photo can be seen at
<http://www.bytemark.com/images/t106-2-33-16.jpg>

Thanks!
Tracy Markham
CWS ByteMark
tracy@bytemark.com

Date: Sat, 27 Apr 2002 11:57:46 -0700
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [125631] Re: K7RE's QRP Dupe Program
Message-ID: <20020427185746.GB12496@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Along that same line, there are a couple of open-source contesting programs being worked on for Linux. They do not yet support a whole lot of contests, including any QRP events, but one of the main points of the open-source approach is that it is very easy to add onto the software. A group is now working on a mini-distribution of Linux which would feature easy installation of contesting software onto any 386-class (or greater) system. I intend to look into adding several of the QRP contests.

Since Linux supports multiple architectures, this also could be used on many other platforms, such as PowerPC, Alpha, Sparc, MIPS, ARM, M68000, etc.

This project is still in its early stages, but I'll post back to the list when there is something of interest.

72, Bob N7XY

Date: Sat, 27 Apr 2002 13:25:32 -0600
From: "Robert Armstrong" <barmstrong@sisna.com>
To: <qrp-l@lehigh.edu>
Subject: [125632] SL vertical fishing poles?
Message-ID: <000d01c1ee21\$4d824900\$e7b4d2d1@barmstrong>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Y'all

I've been trying to find a SD 20 or similar telescoping fiberglass 20 foot fishing pole similar to those used in the SL Vertical that was popular a few years ago. Are they still being made? Where can one be purchased?

Bob N7XJ
Manti Utah

Date: Sat, 27 Apr 2002 14:41:24 -0500
From: Dave Gingrich K9DC <gingrich2@dcg.org>
To: georgekr5c@cablelynx.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [125633] Re: 9913 coax
Message-ID: <5.1.0.14.2.20020427142809.030bd090@172.22.1.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:30 4/27/2002 -0500, georgekr5c wrote:
>Some time back there was a discussion on 9913 Coax cable and some of the
>thigs that should be considered before buying. I can't remeber the "no nos"
>that were brought up. Can someone please e-mail me privately those things
>mentioned? Thanks, George KR5C

The main problem with 9913 is that it tends to "suck" ... water that is.
I've never used a piece outside that didn't ultimately fill up with water
(normally an air core).

Personally, I would use Times LMR-400. Same size, and roughly the same
loss. A dense foam dielectric and only slightly more expensive.

=====
Dave Gingrich, K9DC - Indianapolis, Indiana USA
K2 #2211, K1 #931, QRP-L #2376, ARS #1109,
FPQRP #389, IRLP #473, k9dc.ampr.org, CCIE #6748
=====

Date: Sat, 27 Apr 2002 12:55:34 -0700 (PDT)
From: Bill ROWLETT <kc4atu@yahoo.com>
To: gingrich2@dcg.org,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [125634] Re: 9913 coax
Message-ID: <20020427195534.6015.qmail@web14207.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Had one run for 2 meters outside for 3 years. Never
had any trouble with water. You have to be real

careful with water proofing it. Tape, coax seal, tape.

If you are careful it will do good outside.

Bill kc4atu

Do You Yahoo!?

Yahoo! Health - your guide to health and wellness

<http://health.yahoo.com>

Date: Sat, 27 Apr 2002 15:11:00 -0500

From: David Gauding <david.gauding@bbs.galilei.com>

To: qrp-l@lehigh.edu

Subject: [125635] Re: SL vertical fishing poles?

Message-ID: <5.1.0.14.0.20020427150616.00ab3200@bbs.galilei.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Bob,

Do a keyword search for "Cabelas" and "Bass Pro Shops". Both are mail order firms. Some Wal-Mart's (but not all) carry the SD poles in various lengths including 20'.

Both firms handle the South Bend SD-20 used in the original St. Louis Vertical project.

A competing product called the "Black Widow" has a slightly smaller base tube diameter but also works well.

de Dave, NF0R nf0r@slacc.com

At 01:25 PM 4/27/02 -0600, you wrote:

>Hey Y'all

>

>I've been trying to find a SD 20 or similar telescoping fiberglass 20 foot
>fishing pole similar to those used in the SL Vertical that was popular a few
>years ago. Are they still being made? Where can one be purchased?

>

>Bob N7XJ

>Manti Utah

Date: Sat, 27 Apr 2002 16:13:36 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: barmstrong@sisna.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [125636] Re: SL vertical fishing poles?
Message-ID: <3CCB0670.5020805@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Robert Armstrong wrote:

> Hey Y'all
>
> I've been trying to find a SD 20 or similar telescoping fiberglass 20 foot
> fishing pole similar to those used in the SL Vertical that was popular a few
> years ago. Are they still being made? Where can one be purchased?

Worldradio magazine (<http://www.wr6wr.com>) sells them for \$19.95 plus \$5 shipping.

Date: Sat, 27 Apr 2002 15:25:33 -0500
From: "Brian Murrey" <brian@iquet.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Pigs" <fpqrp-l@mpna.com>
Subject: [125637] Good deal
Message-ID: <016901c1ee29\$af533420\$87372bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey...Ocean State has a good deal running right now on O-Scope probes.

65Mhz for \$13.95, 100 Mhz for \$26.95

Check it out:

http://www.oselectronics.com/ose_p8.htm

73 de KB9BVN/AE

Date: Sat, 27 Apr 2002 17:15:41 -0400
From: "Marty N5NW" <n5nw@n5nw.org>
To: <qrp-1@Lehigh.EDU>
Subject: [125638] Re: Counterpoise,ground...Don't understand
Message-ID: <000301c1ee30\$b65eedc0\$0500a8c0@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Bob,

If the B&W Apartment antenna is like mine, it doesn't require a tuner, but rather uses a tuned counterpoise to get to resonance. The bracket is part of the counterpoise system (the coax and driven radiator are insulated from the bracket).

Having the tuner in line probably complicates things ...

de N5NW/8 (Marty)
Bellbrook, Ohio

Date: Sat, 27 Apr 2002 17:18:20 -0400
From: "Marty N5NW" <n5nw@n5nw.org>
To: <qrp-1@Lehigh.EDU>
Subject: [125639] Wanted to Buy (WTB:) Spider antenna 15m resonator
Message-ID: <000701c1ee31\$15c49ee0\$0500a8c0@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For those that suggested it, the Spider antenna resonators are not interchangeable with Hustler resonators. The threads are very different. A good thought, though.

Anyone got a 15m Spider resonator they'd part with?

de N5NW/8 (Marty)

Bellbrook, Ohio

Date: Sat, 27 Apr 2002 14:34:17 -0700 (Pacific Daylight Time)
From: "Michael Colvin" <mcolvin@myrealbox.com>
To: <qrp-1@Lehigh.EDU>
Subject: [125640] Returning to HF operation
Message-ID: <3CCB1959.00000E.01816@verbocit-j3jws9>
MIME-Version: 1.0
Content-Type: Text/Plain
Content-Transfer-Encoding: quoted-printable

I'm getting ready to return to HF QRP operation after a 13-year hiatus. I want to work basically 20 through 10M, but if there is a way to include 40-80M, I'm open to that. The last time I worked HF I had a TR-3 Jr. and did quite well. I don't have the beam anymore, so I am thinking of building a tri-band quad, but I am also open to getting suggestions from the list as to the type of antenna that would work best for me.

I live in a 1-1/2 story Cape Cod-style home in a suburban neighborhood with a small back yard. Cheap is important. I enjoy building antennas and homebrew gear, so that is not a problem. What do-it-yourself designs are available on the Internet that I should look at?

What is the state-of-the-art opinion about horizontal versus vertical antennas these days as it applies to QRP?

I will post the sum of your collective wisdom on my web site when I have had a chance to assemble it all.

Michael Colvin, KB0MJ
kb0mj@qsl.net

Date: Sat, 27 Apr 2002 17:52:37 EDT
From: NV9Z@aol.com
To: qrp-1@lehigh.edu
Subject: [125641] PP8AZC @21.010 21:35Z
Message-ID: <15d.d122a2c.29fc77a5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi QRPers!

PP8ZAC was at 21.010 a little while ago with a very strong signal. I worked

him easily with just 3 watts from my QRP+ and a G5RV (559 report).

I also a few JA's on 15M but they were pretty weak.

72 and Happy QRP-DXing to All!

Chris Blaase NV9Z QRP-L #2370
Hagerstown IN

Date: Sat, 27 Apr 2002 17:13:26 -0500
From: "w5tb" <w5tb@arrl.net>
To: <mcolvin@myrealbox.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [125642] Re: Returning to HF operation
Message-ID: <01af01c1ee38\$c1622ae0\$0300a8c0@altn1.tx.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

Welcome back! get the quad up when you can but first I recommend you =
put up a dipole 44' per leg and fed with open wire. Will work everything =
80-10 and maintains a nice side/side pattern 80-20 and interesting =
patterns on bands above. Easy, quick and effective. Even with the quad =
you'll have a good antenna for 80, 40 and the WARC bands :-)

<http://www.cebik.com/aledz.html>

<http://www.swlink.net/~w5jh/dipole.htm>

http://www.natworld.com/ars/pages/back_issues/1998_text/0698_text/ffd.html
1

72, 73, oo T.E. 'Doc' Drake, W5TB
Arlington, Texas
FISTS # 5365 QRPARCI # 3532 ARRL Life Member K1 #181 K2#1617=20

----- Original Message -----=20
From: "Michael Colvin" <mcolvin@myrealbox.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, April 27, 2002 4:34 PM
Subject: Returning to HF operation

> I'm getting ready to return to HF QRP operation after a 13-year =

hiatus. I
> want to work basically 20 through 10M, but if there is a way to =
include
> 40-80M, I'm open to that. The last time I worked HF I had a TR-3 Jr. =
and
> did quite well. I don't have the beam anymore, so I am thinking of
> building a tri-band quad, but I am also open to getting suggestions =
from the
> list as to the type of antenna that would work best for me. =20
> I live in a 1-1/2 story Cape Cod-style home in a suburban neighborhood =
with
> a small back yard. Cheap is important. I enjoy building antennas and
> homebrew gear, so that is not a problem. What do-it-yourself designs =
are
> available on the Internet that I should look at? =20
> What is the state-of-the-art opinion about horizontal versus vertical
> antennas these days as it applies to QRP?=20
> I will post the sum of your collective wisdom on my web site when I =
have had
> a chance to assemble it all.
> Michael Colvin, KB0MJ
> kb0mj@qsl.net=20

End of QRP-L Digest 2538

